

Abstract

In a laser processing machine for processing workpieces using a laser beam (2), a telescope (1) for widening the laser beam (2) comprises an ellipsoidal mirror (3) and a paraboloidal mirror (4) whose axes of rotation (6) extend parallel, in particular collinear, to each other. This orientation permits precise production of the reflecting surfaces of the two mirrors through one single clamping (e.g. through diamond lathe) such that later adjustment is not required.

(Fig. 1)